

<p>Tareyev, B. M. and Lerner, M. M. THE CONTINUOUS OXIDATION BY ALTERNATING CURRENT OF ANODE FOIL FOR ELECTROLYTIC CAPACITORS (Neprepymoye Oksidirovaniye Peremennym Tokom Anodney Foil'gi dlya Elektro- liticheskikh Kondensatorov). Jan 61 [15]p. 7 refs. RTS 1664. Order from LC or SLA m1\$2.40, ph\$3.30 61-15392 Trans. of Elektrichestvo (USSR) 1959, no. 6. p. 71-76.</p> <p>Tests showed that dynamic forming of anode foil for electrolytic capacitors by ac is best carried out with the baths cross-connected. Baths of existing construction are suitable provided that they are made of material not subject to forming (for example, stainless steel grade 1Kh18N9T). The greatest stability of forming conditions is achieved when the same foil is passed through successive baths connected back to back. (Engineering--Electronic. TT. v. 5. no. 7)</p>	<p>61-15392</p> <ol style="list-style-type: none">1. Aluminum foils--Oxidation2. Alternating current--Applications3. Anodes--Materials4. Electrolytic capacitors--Materials <ol style="list-style-type: none">I. Tareyev, B. M.II. Lerner, M. M.III. RTS-1664IV. Department of Scientific and Industrial Research (Gr. Brit.) <p>148,750 MT 37</p> <p>Office of Technical Services</p>
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A Circuit for Obtaining Voltage (Surge) Waves
of Special Form, by A. A. Akopyan. USCL

RUSSIAN, per, Elektrichestvo, No 6, 1959,
pp 76, 77.

DSIR LNU N.1328

(loan)

Sci - Electron
Apr 60

112,671

The External Reactance of Steel Wires and Bus-Bars,
by V. Savyuk.

RUSSIAN, per, Elektrichestvo, No 6, 1959,
pp 78-80.

SIA 60-23177
DSIR LLU M.1564
(loan)

Sci - Electricity

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Electric Technology USSR, 1960, Vol III.

RUSSIAN, per, Elektrichestvo, No 7, 1959, pp 9-13,
19-21, 55-57, 81-83.

PP

Sci

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Vol IV, No 6

Commutation in Multistage Direct Field Rotary
Amplifiers, by B. F. Tokarev.

RUSSIAN, per, Elektrichestvo, No 7, 1959, pp 13-18.

ILL N. 3353

Sci - Electron

192, 322

Apr 62

Designing Reactors With a Steel Magnet
Circuit and Air Gaps, by E. A. Man'kin.

RUSSIAN, per, Elektrichestvo, No 7, 1959,
pp 35-41.

NLL M.3461

193,800

Sci - Engrs

Ayr 62

Some Questions on the Methods of Testing High-Voltage Insulation, by V. L. Ivanov, et al.

RUSSIAN, per, Elektrichesstvo, No 7, 1959,
pp 61-64.

DSIR LLU M.1996
(loan)

Sci - Electricity

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Main Characteristics of a High-Voltage Cable,
by S. M. Bragin.

RUSSIAN, per, Elektrichestvo, No 7, 1959,
pp 65-70.

DSIR LLU M.1738
(loan)

Sci - Electricity

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Method of Measuring the Restoration of Electrical
Stability in an Air-Quenched Cut-Off Switch, by
V. Gusa, Ya. Tsigalka.

RUSSIAN, per, Elektrichesstvo, No 7, 1959,
pp 70-72.

DSIR LLU RTB 1498

Sci - Electricity

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Dumitrescu, A., Elefterescu, M., and Kovaci, S.
METHODS OF FORECASTING ENERGY CONSUMPTION. [1960] (9) p. 3 refs. C. E. Trans. 1659:
M2322.

Order from LC or SLA m\$1.80, ph\$1.80 61-15464

Trans. of Elektrichesvo (USSR) 1959, no. 8,
p. 26-29.

An analytical method is proposed for the determination of the dynamics of overall heat and electrical energy consumption by summation of the energy consumptions in the different branches of the national economy, the latter being determined on the basis of the dynamics of the specific, energy consumptions and the dynamics of production in the given branch of industry.

(Physics--Electricity, TT, v. 5, no. 11)

61-15464

- I. Electrical energy--Consumption
- I. Dumitrescu, A.
- II. Elefterescu, M.
- III. Kovaci, S.
- IV. CE Trans-1659
- V. DSIR LLU M. 2322
- VI. Central Electricity Generating Board (Gt. Brit.)

160954

Office of Technical Services

An Analytical Method for Calculating the
External Rating of A.C. Generators
Energized by Permanent Magnets, by
P. P. Galteev, 16 pp

RUSSIAN, per, Elektrichesvo, No 8, 1959,
pp 30-35.

OTS TT-67-21321
RAC 936
PP 167,858

Sci - Electron

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Russian, per, Elektrichestvo, No 8, 1959, pp 45-51,
65-69, 73-80.

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Vol IV, No 6

Estimate of the Operational (Wear and Tear)
Reliability of Electromagnetic Mechanisms, by
Ya. A. Rips,

RUSSIAN, per, Elektrichestvo, No 8, 1959,
pp 57-62. 9066983

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Oct 60
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Mar 20 8/7/60

*AEC SCL-T-352

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up

Geometrical Dimensions and Dielectric Strength
of the Insulation of Segmental Conductors, by
V. P. Shevchenko-Vinogradov.

RUSSIAN, per, Elektrichestvo, No 8, 1959,
pp 69-72.

DSIR LII M.1790
(loan)

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Oct 60

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<p>Kachanova, N. A. and Umed'yan, V. V. PROGRAMMING FOR DIGITAL COMPUTERS, OF CALCULATIONS FOR ECONOMIC LOAD DISTRIBU- TION IN A POWER SYSTEM. [1960] [10] p. 3 refs. C. E. Trans. 1643; M2317. Order from LC or SLA mi\$1.80, ph\$1.80 61-15460</p> <p>Trans. of <u>"Elektrichesvo (USSR)</u> 1959, no. 9, p. 1-5.</p> <p>151652</p> <p>(Engineering--Electrical, TT, v. 5, no. 8)</p>	<p>61-15460</p> <p>1. Electric power production-- Costs 2. Electrical networks-- Synthesis 3. Mathematical computers-- Scheduling</p> <p>I. Kachanova, N. A. II. Umed'yan, V. V. III. CE Trans-1643 IV. DSIR LRU M.2317 V. Central Electricity Generating Board (Gr. Brit.)</p> <p>Office of Technical Services</p>
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Electric Technology USSR, 1960, Vol III.
RUSSIAN, per, Elektrichestvo, No 9, 1959, pp 13-20,
30-35, 72-73.

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Vol IV, No 6

Brush Noise of Single Phase Commutator
Horse-Power Motors, by N. V. Astakhov.

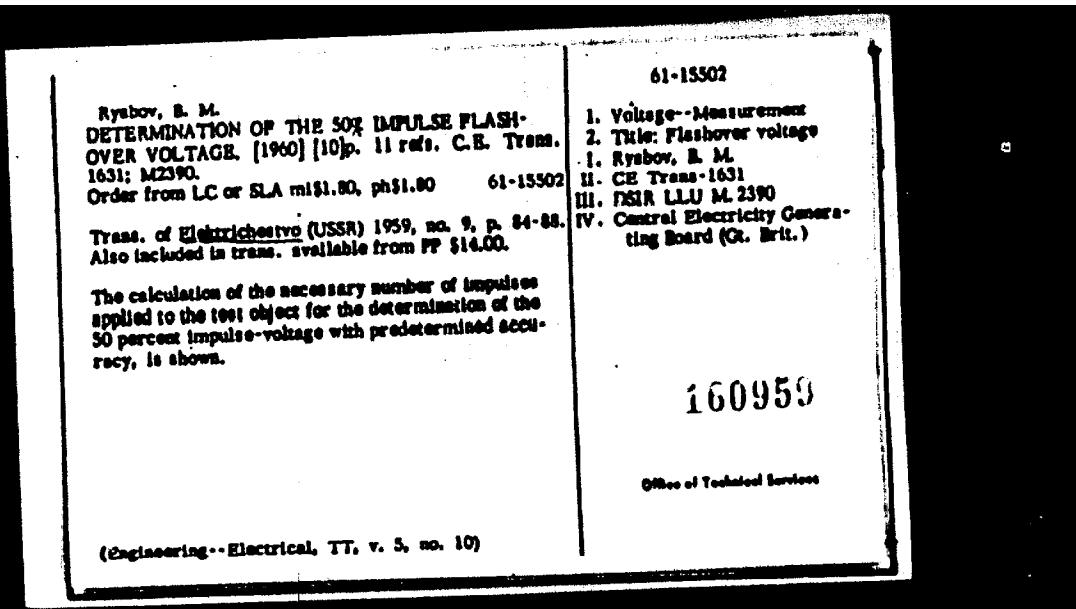
RUSSIAN, per, Elektrichestvo, No 9, 1959,
pp 46-50.

DSIR LLU RTS 1608

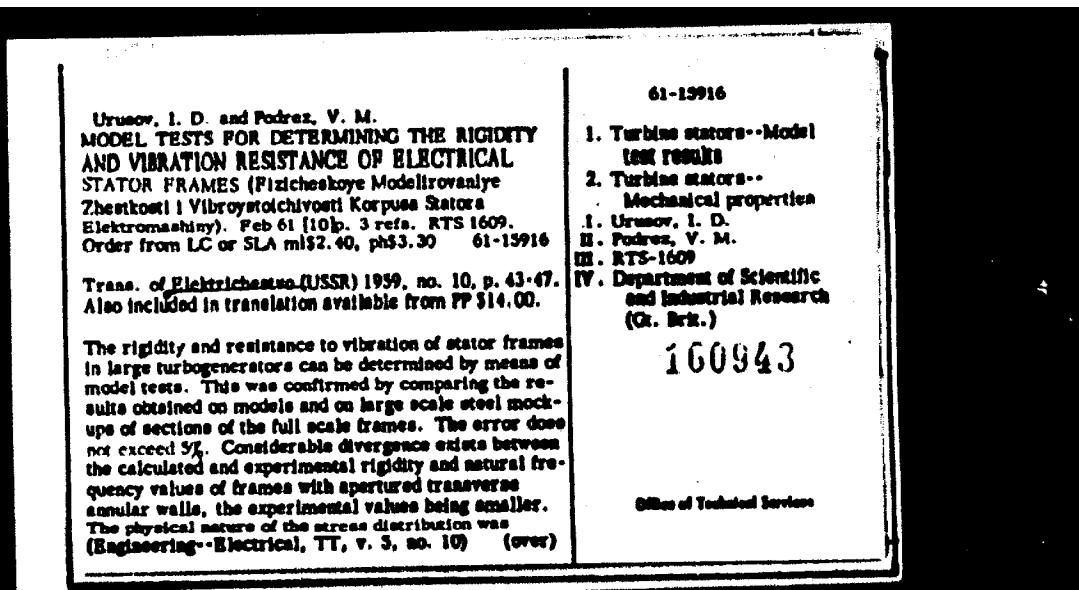
Sci - Engr

Oct 60

130,736



<p>ELECTRIC TECHNOLOGY U. S. S. R., 1960, VOL. 4, P. 505-673. Nov 60, 1v. Order from PP \$14.00, \$56.00/year</p> <p>Trans. of Elektrichesko (USSR) 1959, no. 10, p. 21-31 43-45, 56-67; no. 11, p. 27-31, 41-43, 56-60, 81; no. 12, p. 10-13 and 47-61. Abstracts are included of the papers which are not translated in full and also abstracts from nos. 3-5.</p> <p>Contents of articles by V. S. Bayayev, M. F. Karanov, G. M. Kasprikhak, I. P. Kryplow, L. V. Mazya, S. A. Morygina, V. A. Nayda, M. N. Onokin, Ya. N. Shreifman, N. S. Syunov, I. D. Urusov, and V. V. Yudkov.</p> <p>(Engineering-Electrical, TT, v. 5, no. 3)</p>	<p>61-12187</p> <p>1. Electrical engineering--USSR 2. Electrical engineering-- Periodicals 1. Pergamon Press, Inc., New York</p> <p>142,938</p> <p>Office of Technical Services</p>
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Electric EM Drive for the Screw of the Atomic
Ice-Breaker, by V. I. Bershadski.

RUSSIAN, per, Elektrichestvo, No 10, 1959,
pp 50-56.

Sci - Engr
Jun 62

ML M. 3543
4 17KS (DL-6010)
modified 11/62
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Distortion of the Characteristics of Electric
Motors Having a Wide Range of Speed, by
I. Z. Ageev.

RUSSIAN, per, Elektrichestvo, No 11, 1959,
pp 52-56.

RAE 914

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Sep 61

CTS TT-63-24310

Application of the Potential Blocking Method
in an Electric-Shock Prevention System, by V. A.
Bun'ko, et al.

RUSSIAN, per, Elektrichestvo, No 11, 1959,
pp 76, 77.

Sci - Electron
Apr 60

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Inforsearch Ltd London
Ac 60-59/11.17

Utilization Factor of Transformer Load Curves,
by L. M. Shnitser,

RUSSIAN, per, Elektrichestvo, No 11, 1959,
pp 88-90.

L. S. Johnson *AEC

Sci *_____*
Apr 60

Possible Lines of Development for Automatically
Regulated Turbo-Generator Excitation Systems, by
Ya. N. Shtrafun.

RUSSIAN, per, Elektrichesstvo, No 12, 1959, pp 10-13.

MLL M. 2660

Sci - Engr

Nov 61

174,426

Analyse on Spying in Committee machine, by
M. P. Mironov, M. P. Suvorov.

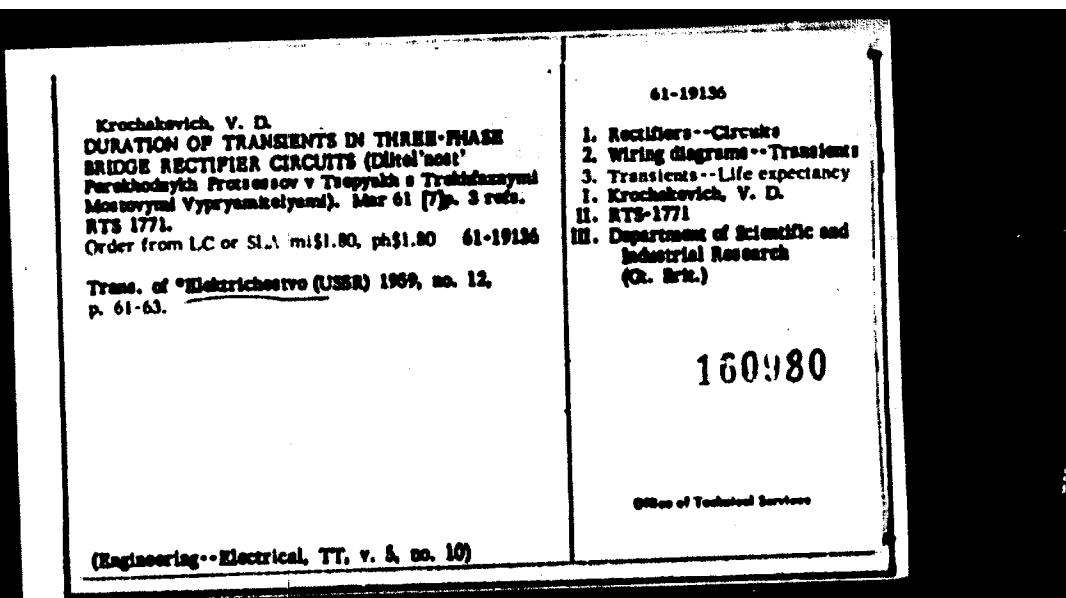
Published in: IZVESTIYA, No. 12, 1959.
Sign: 80-371.

DSIR NLL M.2330

Sec. - Eng.

171.907

Oct 01.



Reactions on Surge Diverters with Reduced
Breakdown Voltage During Internal Over Voltages,
by N. V. Shishman,

RUSSIAN, per, Elektrichestvo, No 12, 1959,
pp 64-69.

NLL M. 2662
61-23265
173, 973

Sci - Electron

Nov 61

<p>ELECTRIC TECHNOLOGY U.S.S.R., 1960, VOL. 5, Dec 60, 169p. Order from PP \$14.00, \$56.00/year</p> <p>Trans. of <i>Elektricheskoye (USSR)</i> 1960, no. 1, p. 1-5, 27-37, 43-47; no. 2, p. 9-24, 53-57; no. 3, p. 20-24, 30-33, 48-55, 73-74. Abstracts are included of the papers which are not translated in full.</p> <p>Contents:</p> <p>The tasks of the electrical engineering industry, by N. I. Borisenko Optimum control systems for the flying shears drive in a rolling mill, by S. M. Domanitskiy Transient processes in automatic step chronometric control of electric rolling stock, by B. P. Petrov A new method of testing the rupturing capacity of high voltage circuit breakers, by A. I. Balakin A digital programme control system for a large lathe, by I. L. Shapiro and others Self-aligning system for automatic control of welding (Engineering-Electrical, TT, v. 5, no. 9) (over)</p>	<p>61-12908</p> <ol style="list-style-type: none">1. Electrical engineering--USSR2. Electrical engineering--Periodicals1. Pergamon Press, Inc., New York	
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(NY-2900/9)

The Tasks of the Electrical Engineering Industry,
by N. I. Borisenko, 11 pp.

RUSSIAN, per, Elektrichestvo, No 1, 1960, pp 1-5.

JPRS 2969

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Econ - Technological

Jul 60

121,485

<p>Sysoev, M. L. IMPULSE STRENGTH OF AIRFILLED SWITCHGEAR. [1961] [11]. 5 refs. C. R. Trans. 1701; [DSER LLU] M. 2825. Order from OTS or SLA \$1.60.</p> <p>Trans. of Elektrichesvo (USSR) 1960, no. 1, p. 63-68.</p> <p>61-23250</p> <p>DESCRIPTORS: *Electric switches, Compressed air, Electric potential, Voltage.</p> <p>See also 59-22496</p> <p>(Engineering--Electrical. TT, v. 6, no. 8)</p>	<p>61-23250</p> <p>I. Sysoev, M. L. II. CR Trans-1701 III. DSER LLU M. 2825 IV. Central Electricity Generating Board (Kz. Erk.)</p> <p>150180</p> <p>Office of Technical Services</p>
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Re-Synchronization of Synchronous Generators, by
M. G. Portnoy.

RUSSIAN, per, Elektrичество, No 1, 1960, pp 73-78.

ML N. 3332

Sci - Electron

191, 926

Spr 62

12/43/71/2772

Modern Ideas on the Breakdown of Dielectrics,
by G. I. Skanavi.

RUSSIAN, per, Elektricheskoe, No 2, 1960,
pp 1-8.

HLL M. 2661

Sci Electron

173, 974

Rev ol

(DC-6571)

A Self-Adjusting System of Automatic Control of
Electric Pipe-Welding Mills, by A. B. Chalyustkin,
V. A. Ivanov, 26 pp.

RUSSIAN, per, Elektrichestvo, No 2, 1960, pp 13-18.

JPRS 12929

Sci' - Electricity
Mar 62

187,559

071 6 - 2 2 4 - 5

A Physical Model of the Constant Current Electric Power Transmission System from Stalingrad GES-Dombass, by V. V. Voskresenski and Kh. F. Barilaev.
RUSSIAN, par. Elektricheskie, No 2, 1960, pp
28-35.
MLL RTS 2884

Sci-Engr
Nov 67

345,256

Synchronizing Gear for a Synthetic Circuit
for Testing Circuit-Breakers for Breaking
Capacity, by N. M. Chernishev, V. D. Lyashenko.

PERSIAN, per, Elektrichestvo, No 2,
1960, pp 53-57.

CSIRO

Sci - Electricity
Jun 62

203,36/

Equivalent Circuit and MM Precise Circle Design
for a Synchronous Reactance Motor, by O. B.
Pevzner.

RUSSIAN, par, Elektrichestvo, No 2, 1960,
pp 64-68.

MIL M. 3548

201, 028

801 - Engr
Jun 62

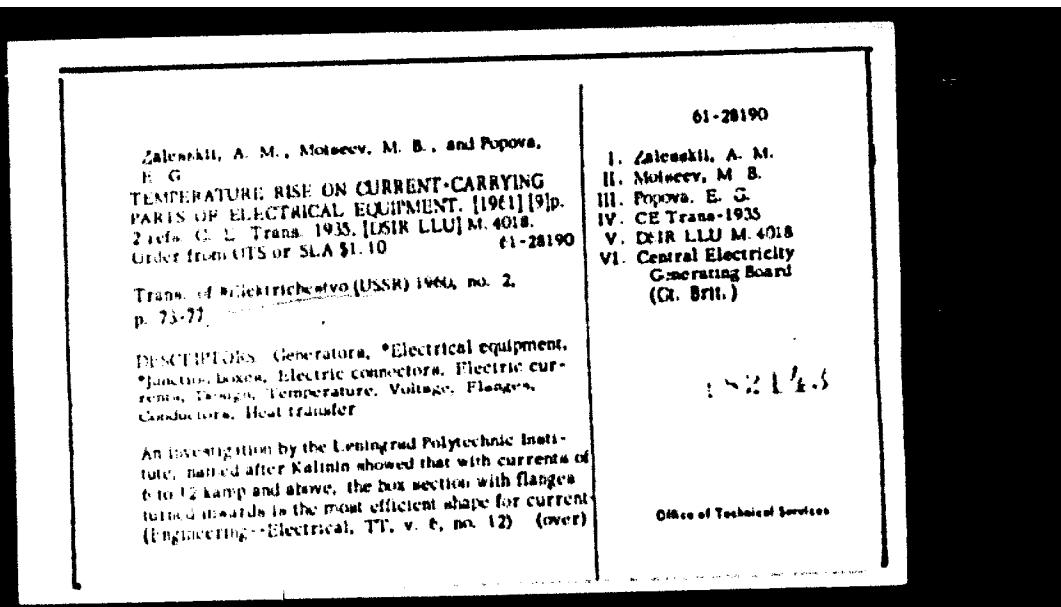
Statistical Method of Selecting the Voltage
in Tests for Breaking Capacity of Circuit
Breakers, by V. V. Kaplan, et al.

RUSSIAN, per, Elektrichesstvo, No 2,
1960, pp 69-73.

CAIRO

Sci - Electricity
Jun 62

203, 362



(NY-2900/11)

Conference on the Utilization of Power
Semiconductor Rectifiers in Industrial Enterprises
and in Transport, by V. A. Maydis, 5 pp.

RUSSIAN, per, Elektrichestvo, No 2, 1960, pp 89, 90.

JPRS 5308

USSR

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158, 245

Jul 61

The Use of Analogue Computers for Studying
Transients in Electrical Systems, by I. A. Gruzdev,
M. L. Levinstein.

RUSSIAN, per, Elektrichestvo, No 3, 1960, pp 1-13.

ILL M. 3014

Sci

17 12 - 61 - 27562

Feb 62

186, 905

18/12/62/T 2007

High-Speed Differential Relay Protection Using
Semiconductors, by G. T. Grek.

RUSSIAN, per, Elektrichestvo, No 3, 1960,
pp 14-20.

MLL N. 3474

Sci - Electron

194, 022

Apr 62

Vilesov, D. V. and Ryabinin, I. A.
CHOIX DES PRINCIPAUX PARAMÈTRES DES
CIRCUITS D'EXCITATION DES GÉNÉRATEURS
SYNCHRONES À AUTOPXCITATION (How to Select
the Basic Parameters of Excitation Systems for Self-
excited Synchronous Generators). 18p. 5refs.
CNRS-X 542

Order from OTS, ETC or CNRS \$0.80 TT-62-28111

Trans. In French of Elektrichesvo (USSR) 1960.
no. 3, p. 20-24.
Another trans. is available In French from PP \$14.00
In Electric Technology USSR, v. 5.

DESCRIPTORS: Generators, Circuits, Starting,
Automatic, *Phase transformers, Theory.

(Engineering--Electrical, TT, v. 11, no. 7)

TT-62-28111

I. Vilesov, D. V.
II. Ryabinin, I. A.
III. CNRS-X542
IV. Centre National de la
Recherche Scientifique,
Paris.

Office of Technical Services

<p>Okhremenko, N. M. ELECTROMAGNETIC PHENOMENA IN FLAT-TYPE INDUCTION PUMPS FOR MOLTEN METAL. Sep 62 (7) p. 12 refs. Order from ARS in its Journal, v. 32, no. 9, \$3.00 Trans. of Elektrichestvo (USSR) 1960, no. 3, p. 48-54.</p> <p>DESCRIPTORS: *Electromagnetic pumps, Inductance, Pumps, Induction motors, Liquid metals, *Liquid metal pumps, Design.</p>	<p>63-12217</p> <p>I. Okhremenko, N. M. II. American Rocket Society, New York III. Primary Sources, New York</p>	
(Physics--Electricity, TT, v. 9, no. 1)	Office of Technical Services	

Free Vibrations of a Coil, by L. Genov.

RUSSIAN, per, Elektrichestvo, No 3, 1960,
pp 55-59.

ILL N. 3545

Sci - Engr
Jun 62

201,027

Biber, L. A.
ERRORS IN GALVANOMETERS APPLIED AS
INTEGRATORS. 19p. Sreda
Order from OTS, SLA, or ETC \$1.60 TT-64-16567

Trans. of Elektricheskiye (USSR) 1960, no. 3, p. 77-
81.

(Engineering--Electrical, TT, v. 12, no. 3)

TT-64-16567

I. Biber, L. A.

Office of Technical Services

Method of Conducting Transient Stability Studies on
Analogue Computers, by V. S. Tarasov, et al.

RUSSIAN, per, Elektrichesstro, No 4, 1960, pp 7-12.

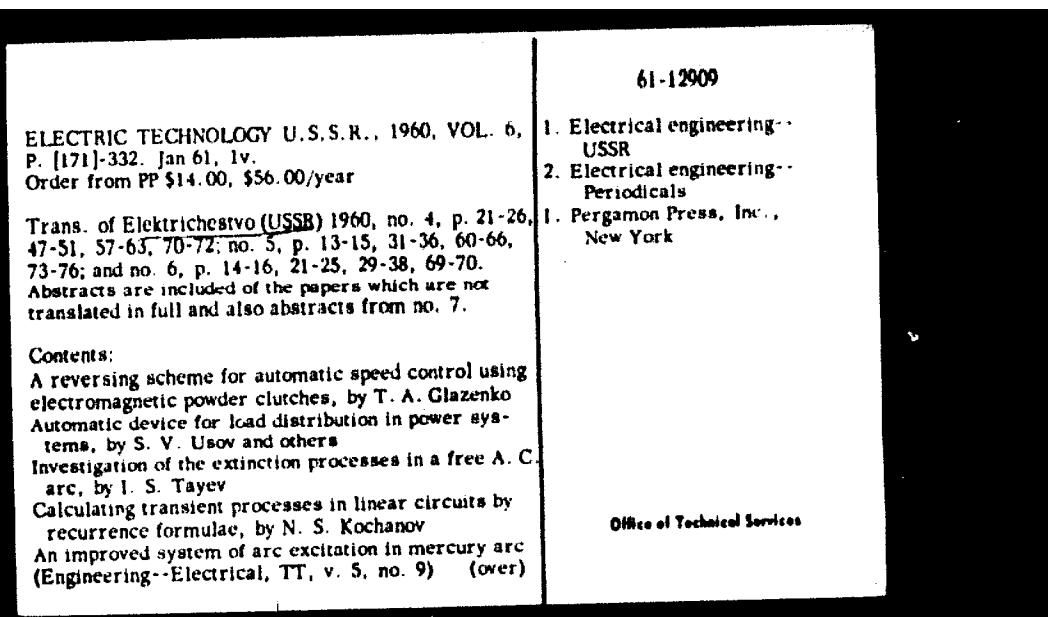
MLL M. 3013
S.R. 61-77504

Sci

Feb 62

186, 906

<p>Pistrak, A. L. and Balabuev, L. M. ELEKTRONISCHE ERREGUNG FÜR MASCHINEN IM HAUPTANTRIEB VON UMKEHRWALZWERKEN (Elec- tronic Energization for Machines in the Main Gear of Reversing Mills). 19p. Order from TIB \$2.95</p> <p>Trans. in German of <u>Elektrichesvo</u> (USSR) 1960, no. 4, p. 13-20.</p> <p>DESCRIPTORS: *Electronics, Machines, *Gears, Rolling mills.</p> <p>(Engineering--Electrical, TT, v. 10, no. 6)</p>	<p>63-27332</p> <p>I. Pistrak, A. L. II. Balabuev, L. M. III. Technische Informations- bibliothek, Hannover (West Germany)</p> <p>Office of Technical Services</p>
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Determination of Transient Processes in
Alternating Current Machines by Means of Frequency
Characteristics, by E. Ya. Kazovskiy, 1941

RUSSIAN, per. Elektricheskoe, No 4, 1960, pp 30-37.
9098397

OT 77-62-24327
RAE 94f

HFC 288-62
P15, 990

Sci - Elec

Dec 61

Choice of Differential Equations of Transient
Processes of a Synchronous Generator When
Investigating Dynamic Stability Using
Computers, by B. M. Kagan, E. L. Urman, /2 pp.

RUSSIAN, per, Elektrichesvo, No 4, 1960,
pp 37-42. 7099093'

OTS 77-63-24231
RAE 957

M. 6018
181, 297

Sci - Electro 611-61-69571

HEC - 615-62

Jan 62
4r-757
AEI TP/T-2899

The Quenching of an Open Arc, by A. S. Maikopar,

RUSSIAN, par, Elektrichestvo, No 4, 1960,
pp 64-69.

CSIRO

Sci - Engr
Aug 62

207, 359

Aleksandrov, G. N.

THE INFLUENCE OF CORONA ON VOLTAGE SURGES UNDER TRANSIENT OPERATING CONDITIONS ON TRANSMISSION LINES. [1961] [15]p.
9 refs. C. E. Trans. 1777; [DSIR LLU] M. 3296.
Order from OTS or SLA \$1.60

61-27609

Trans. of #Elektrichestvo (USSR) 1960, no. 5,
p. 6-13.

DESCRIPTORS: *Electrical corona, Electrical effect, *Voltage, *Transmission lines, Transients.

Equations are derived that provide an evaluation of the drop in the surge on power lines due to the corona effect at the first rise in the voltage on the basis of data obtained by calculating transient processes without taking the corona effect into consideration. The equation can also be used for introducing a correction for (Engineering--Electrical, TT, v. 6, no. 9) (over)

61-27609

I. Aleksandrov, G. N.
II. CE Trans-1777
III. DSIR LLU M. 3296
IV. Central Electricity Generating Board

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Office of Technical Services

Electromagnetic Pumps for Liquid Metals, by A. I.
Vol'bek.

RUSSIAN, per, Elektrichesstvo, No 5, 1960,
pp 22-27.

MLL N. 6321

Sci - Electron

Nov 62

CEC-B 2462

Eiectromagnetic Pumps for Liquid Metals, by A. I.
Vol'dek.

RUSSIAN, per, Elektrichestvo, No 5, 1960,
pp 22-27.

MIL M. 6321

1960

Sci - Electron

Nov 62

217,529

CEA-tr-R-1389 Unc1.

POMPES ELECTROMAGNETIQUES POUR LES METAUX LIQUIDES. (Electromagnetic Pumps for Liquid Metals). A. I. Vold'ek. Translated into French from Elektrichestvo, No. 5, 22-7(1960). 22p.

Engineering MC-38

C-38 NP NSA Dep.(mc); \$2.60(fs), \$0.86(mf)
JCL or OTS

N-3

Electromagnetic Calculations of Direct
Current Machines Taking Into Account
the Cooling of the Windings, by N.
A. Panfilov.

RUSSIAN, per, Elektricheskie, No 5,
1960, pp 50-53.

ML M.3322

Sci - Electricity

186,590

Feb 62

The Influence of Power Factor Improvement on Load
Stability, by V. A. Venikov, 7 pp.

RUSSIAN, per, Elektrichesvo, No 6, 1960, pp 6-10.

AEC-TRG-Inf-Ser-18

Sci - Engr

Aug 63

341,314

Kostenko, M. P., Kazovskii, B. Ya., and
Danilevich, Ya. B.
EXPERIMENTAL INVESTIGATION OF NEW METHODS
OF DETERMINING THE PARAMETERS OF
A.C. MACHINES. [1961] [7]p. 3 refs. C.B.
Trans. 1874; [DSIR LLU] M. 3297.
Order from OTS or SLA \$1.10 61-27608

Trans. of #Elektrichesvo (USSR) 1960, no. 6,
p. 14-16.
Also included in trans. available from PP \$14.00.

DESCRIPTORS: *Electric machinery, Frequency,
Test methods, Transients, Alternating current.

The new methods for the experimental investigation of
machine parameters were quite simple and gave satis-
factory results, especially in the calculation of tran-
sient processes of machines with massive elements, in
which an essential factor is the current displacement.
(Author)

61-27608

- I. Kostenko, M. P.
- II. Kazovskii, B. Ya.
- III. Danilevich, Ya. B.
- IV. C.R. Trans. 1874
- V. DSIR LLU M. 3297
- VI. Central Electricity
Generating Board
(Gr. Brit.)

185608

(Engineering--Electrical,
TT, v. 6, no. 9)
Office of Technical Services

INVESTIGATION OF THE IGNITION OF A SECTIONALISED
HIGH-VOLTAGE VALVE, BY N. M. MASLENNIKOV. 8pp.

RUSSIAN, PER, ELEKTRICHESTVO, NO 6, 1960,
PP 25-29.

SCI - ELECTRICITY
OCT 62

NLL M. 6013
OTS 62-25924
Reverse Trans to German
by TTB

214,718

On the Operational Reliability of Tele-mechanics Devices, by N. S. Shabalin, 6 pp.

RUSSIAN, per, Elektrichesivo, No 6, 1960,
pp 91-93. 9672013

FTD-TT-61-142

Sci - Eng

176, 145

18 Dec 61

(NY-7030)

Tasks in Improving the Quality of
Electrical Steels and Alloys, by
A. M. Samarin, 8 pp.

RUSSIAN, per, Elektrichesstvo, No 7,
1960, pp 1-4.

JPRS 13429

Sci - Electricity

191, 369

Apr 62

ELECTRIC TECHNOLOGY U.S.S.R., 1960, VOL. 7,
P. 333-484. Feb 61, N.
Order from PP \$14.00, \$36.00/year

Trans. of Elektricheskoye (USSR) 1960, no. 7, p. 11-25,
61-65; no. 8, p. 36-39, 51-67; no. 9, p. 23-29, 38-45,
49-52. Abstracts are included of those papers which
are not translated in full.

DESCRIPTORS: *Electrical engineering, *Electrical
equipment, Electromagnetic drives, Rolling mills,
Grinders, Computers, Current regulators, Capacitors,
Nonlinear systems, Power transformers, Turbines,
Electric motors.

Contents:
New electrical drives for continuous cold rolling mills.
by F. F. Olefir
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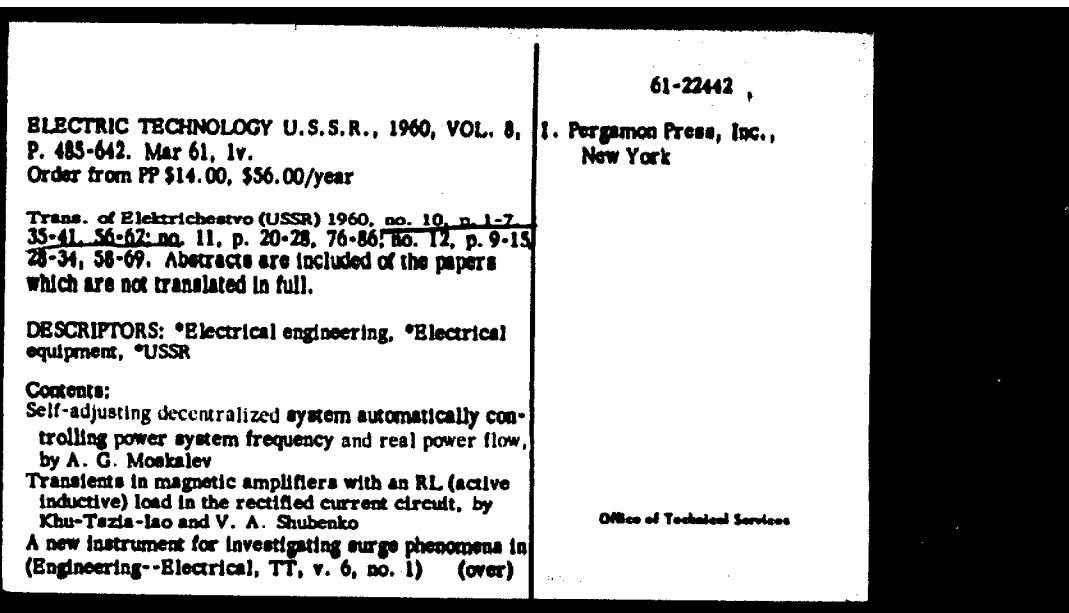
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